

Amendment to the Specification

The Paragraph beginning at Page 22 through to Page 23, lines 2 - 1, is to be deleted and replaced with the Paragraph as follows:

When a user clicks on a netpage with a netpage pen, the pen communicates the click to the nearest netpage printer 10601. The click identifies the page and a location on the page. The printer 10601 already knows the ID ~~1061~~10061 of the pen from the pen connection protocol.

The printer 10601 determines, via the DNS, the network address of the page server 10010a handling the particular page ID 10050. The address may already be in its cache if the user has recently interacted with the same page. The printer 10601 then forwards the pen ID 10061, its own printer ID 10062, the page ID 10050 and click location to the page server 10010a.

The page server 10010a loads the page description identified by the page ID 10050 and determines which input element's zone, if any, the click lies in. Assuming the relevant input element is a hyperlink element, the page server 10010a then obtains the associated application ID 10064 and link ID 10054, and determines, via the DNS, the network address of the application server hosting the application 10071.

The page server 10010a uses the pen ID 10061 to obtain the corresponding user ID 10060 from the registration server 10011, and then allocates a globally unique hyperlink request ID 10052 and builds a hyperlink request 10934. The hyperlink request class diagram is shown in Figure 33. The hyperlink request records the IDs of the requesting user 10800 and printer 10802, and identifies the clicked hyperlink instance 10862. The page server 10841 then sends its own server ID 10053, the hyperlink request ID 10052, and the link ID to the application.

~~The Referring again to Figure 34, the application 10071 produces a response document according to application-specific logic, and obtains a document ID 10051 from an ID server 10012. It then sends the document to the page server 10010b responsible for the document's newly allocated ID, together with the requesting page server's ID and the hyperlink request ID.~~

The second page server 10010b sends the hyperlink request ID and application ID to the first page server 10010a to obtain the corresponding user ID and printer ID 10062. The first page server 10010a rejects the request if the hyperlink request has expired or is for a different application.

The second page server 10010b allocates document instance and page IDs 10050, returns the newly allocated page IDs to the application, adds the complete document to its own database, and finally sends the page descriptions to the requesting printer 10601.

The hyperlink instance may include a meaningful transaction ID 10055, in which case the first page server 10010a includes the transaction ID in the message sent to the application 10071. This allows the application 10071 to establish a transaction-specific context for the hyperlink activation.

If the hyperlink requires a user alias, i.e. its "alias required" attribute is set, then the first page server 10010a sends both the pen ID 10061 and the hyperlink's application ID 10064 to the registration server 10011 to obtain not just the user ID corresponding to the pen ID but also the alias ID 10065 corresponding to the application ID and the user ID. It includes the alias ID in the message sent to the application 10071, allowing the application 10071 to establish a user-specific context for the hyperlink activation.

The Paragraph beginning at Page 1, lines 8 - 20, is to be deleted and replaced with the Paragraph as follows:

CO-PENDING APPLICATIONS

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications, the disclosures of which are incorporated herein by cross-reference:

7243835	10/815630	10/815637	10/815638	7251050	10/815642
7097094	7137549	10/815618	7156292	10/815635	7357323
10/815634	7137566	7131596	7128265	7207485	7197374
7175089	10/815617	10/815620	7178719	10/815613	7207483
7296737	7270266	10/815614	10/815636	7128270	10/815609
7150398	7159777	10/815610	7188769	7097106	7070110
7243849	7204941	7282164	10/815628		

The Paragraph beginning at Page 1 through to 3, lines 22 - 1, is to be deleted and replaced with the Paragraph as follows:

CROSS REFERENCES

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present

invention. The disclosures of all of these co-pending applications and granted patents are incorporated herein by cross-reference.

7156289	7178718	7225979	09/575197	7079712	6825945
7330974	6813039	7190474	6987506	6824044	6980318
6816274	7102772	7350236	6681045	6678499	6679420
6963845	6976220	6728000	7110126	7173722	6976035
6813558	6766942	6965454	6995859	7088459	6720985
7286113	6922779	6978019	6847883	7131058	7295839
09/607843	09/693690	6959298	6973450	7150404	6965882
7233924	09/575181	09/722174	7175079	7162259	6718061
10/291523	10/291471	7012710	6825956	10/291481	7222098
10/291825	7263508	7031010	6972864	6862105	7009738
6989911	6982807	10/291576	6829387	6714678	6644545
6609653	6651879	10/291555	7293240	10/291592	10/291542
7044363	7004390	6867880	7034953	6987581	7216224
10/291821	7162269	7162222	7290210	7293233	7293234
6850931	6865570	6847961	10/685523	10/685583	7162442
10/685584	7159784	10/804034	10/793933	7068382	7007851
6957921	6457883	7094910	7091344	7122685	7038066
7099019	7062651	6789194	6789191	6644642	6502614
6622999	6669385	6827116	6549935	6987573	6727996
6591884	6439706	6760119	7295332	7064851	6826547
6290349	6428155	6785016	6831682	6741871	6927871
6980306	6965439	6840606	7036918	6977746	6970264
7068389	7093991	7190491	6982798	6870966	6822639
6474888	6627870	6724374	6788982	7263270	6788293
6946672	6737591	7091960	09/693514	6792165	7105753
6795593	6980704	6768821	7132612	7041916	6797895
7015901	7289882	7148644	10/778056	10/778058	10/778060
10/778059	10/778063	10/778062	10/778061	10/778057	7055739
7233320	6830196	6832717	7182247	7082562	6843420
10/291718	6789731	7057608	6766944	6766945	7289103
10/291559	7299969	10/409864	7108192	7111791	10/786631
10/683040	10/778090	6957768	09/575172	7170499	7106888
7123239	6982701	6982703	7227527	6786397	6947027
6975299	7139431	7048178	7118025	6839053	7015900
7010147	7133557	6914593	10/291546	6454482	6808330
6527365	6474773	6550997	7093923	6957923	7131724

BACKGROUND